

CENTER FOR HEALTH STATISTICS

DATA SUMMARY

REPORT REGISTER NO. DS01-08000 (August, 2001)

HIV/AIDS DEATHS CALIFORNIA, 1998

Introduction

This report presents the latest death data in California due to Human Immunodeficiency Virus (HIV) and Acquired Immunodeficiency Syndrome (AIDS). The numbers and rates of HIV/AIDS deaths in this report were compiled and analyzed by sex, age, and race/ethnicity.

In recent years, the age-adjusted death rate due to HIV/AIDS has been declining in California and the U.S. California's rate began dropping in 1995, while the U.S. rate started decreasing in 1996.^{1,2} In 1998 California's age-adjusted death rate (4.0 per 100,000 population) fell 25.0 percent from the 1997 rate of 5.2, while the U.S. age-adjusted rate (4.6) dropped 21 percent from its 1997 rate of 5.9.3 Because of the significant decline in HIV/AIDS death rates, the prevalence of people living with HIV/AIDS has increased. According to Centers for the Disease Control Prevention, an estimated 274,624 persons were living with AIDS representing a 10.9 percent increase from 1997.4,5

As with other diseases, *survival analysis* is the most appropriate statistical technique for determining whether or not survival has increased. of not analysis mortality. Consequently, the death data within this report should be supplemented with incidence data to adequately measure the impact of the HIV/AIDS epidemic. Data related to the incidence of HIV/AIDS in California can be obtained from the Department of Health Services. Office of AIDS.

Methodological Approach

The method used to analyze vital statistics data is also important. Analyzing only the number of deaths has its disadvantages and can be misleading because the population at risk is not taken into consideration. Crude death rates show the actual rate of dying in a given population, but because of the age compositions of various populations, they do not provide a statistically valid method for comparing geographic areas and/or multiple reporting periods. Age-specific death rates are the number of deaths per 100,000 population in a specific age group and are used along standard population proportions with develop a weighted average rate. This rate is referred to as an age-adjusted death rate and removes the effect of different age structures of the populations whose rates are being compared. Age-adjusted death rates therefore provide the preferred method for comparisons of different race/ethnic groups, sexes, and geographic areas and measuring death rates over time. The 1940 United States (standard million) population is used as the basis for age-adjustments in this report.

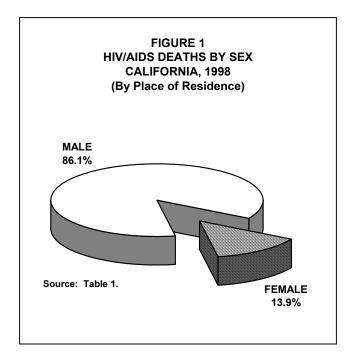
HIV/AIDS Deaths

Table 1 (page 6) displays HIV/AIDS death data for 1998 by race/ethnicity, age, and sex. In 1998, there were 1,432 deaths among California residents due to HIV/AIDS, a 22.9 percent drop in deaths from the 1997 figure (1,857). The majority of the 1,432 deaths were

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among decedents aged 25-64 (1,371). Of the four race/ethnic groups, Whites had the highest number of deaths (733) followed by Hispanics (345), Blacks (316), and Asian/Other (38).

Figure 1 shows the disparity in HIV/AIDS deaths by sex. Of the total number of deaths in California, males accounted for 86.1 percent (1,233), while females made up the remaining 13.9 percent (199). The large disparity in HIV/AIDS deaths by sex also existed among each of the four race/ethnic groups.

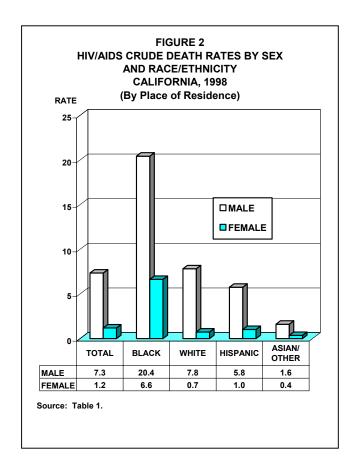


HIV/AIDS Crude Death Rates

California's 1998 crude death rate due to HIV/AIDS was 4.3 per 100,000 population, a 23.2 percent decrease from the 1997 rate of 5.6. ⁵ The rate among males also declined from 9.9 in 1997 to 7.3 in 1998, a 26.3 percent drop. The female rate declined 7.7 percent from 1.3 in 1997 to 1.2 in 1998.

Blacks had the highest crude death rate (13.4 per 100,000 population) in 1998, followed by Whites (4.2), Hispanics (3.5), and Asian/Other

(1.0). As shown in **Figure 2**, Black males and females also had the highest rates by gender, 20.4 and 6.6 respectively. In contrast, Asian/Other males and females had the lowest death rates, 1.6 and 0.4 respectively.

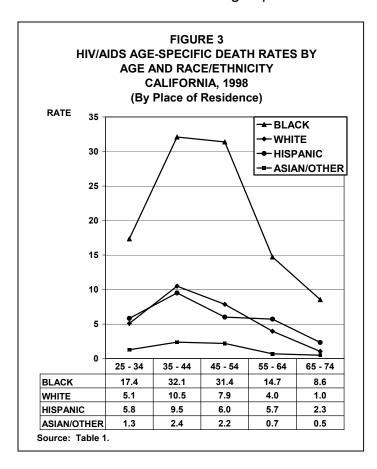


HIV/AIDS Age-Specific Death Rates

Of the reliable age-specific death rates in 1998, California residents aged 35-44 had the highest (10.8 per 100,000 population), while those aged 65-74 had the lowest (1.6). The next highest rate among decedents was for the 45-54 age group at 8.3.

The highest age-specific death rates among males and females were also in the 35-44 age group. In this age group, the death rate among males was 18.5 per 100,000 population and the female death rate was 2.7. The lowest reliable death rates were among males aged 65-74 (3.2) and females aged 25-34 (1.9).

As illustrated in Figure 3, Blacks had the highest age-specific death rates among the four race/ethnic groups. The highest Black rate was among decedents aged 35-44 (32.1 per 100,000 population) and the lowest reliable rate was among those aged 55-64 (14.7). White and Hispanic rates, although different, do not vary significantly in each age group. Both had the highest rates in the 35-44 year old age group, 10.5 among Whites and 9.5 among Hispanics. The lowest reliable White rate was among decedents aged 55-64 (4.0), and the lowest reliable Hispanic rate was amona decedents aged 55-64 (5.7).Asian/Other had no reliable age-specific rates.



HIV/AIDS Age-Adjusted Death Rates

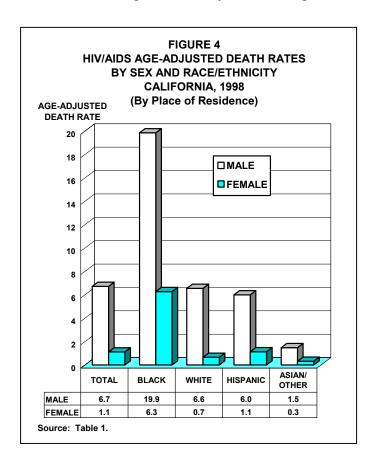
Table 1 (page 6) shows that California's 1998 age-adjusted death rate was 4.0 per 100,000 population, a 23.1 percent decrease from the 1997 rate of 5.2. The rate among males also declined from 9.1 in 1997 to 6.7 in 1998, a 26.4 percent drop. The female rate declined 8.3 percent from 1.2 in 1997 to 1.1 in 1998.

The 1998 age-adjusted death rate among Blacks (12.8 per 100,000 population) dropped 26.9 percent from their 1997 rate of 17.5, but continued to have the highest rate among the four race/ethnic groups. The 1998 rate among Whites (3.6) and Hispanics (3.7) also decreased 25.0 and 22.9 percent respectively from their 1997 rate of 4.8 for both groups. Asian/Other had the lowest 1998 rate (0.9), also the same as their 1997 rate.

As shown in **Figure 4**, Black males and females also had the highest rates by gender, 19.9 and 6.3 respectively. The rates among White males (6.6) and females (0.7) were similar to Hispanic males (6.0) and females (1.1). Asian/Other males had the lowest reliable rate at 1.5.

HIV/AIDS Death Data by County

Table 2 (page 7) shows the 1996-1998 threeyear average numbers of HIV/AIDS deaths with the crude and age-adjusted death rates for California's 58 counties. Among the 58 counties, Los Angeles County had the highest



three-year average number of deaths (912.3), which was 36.5 percent of all HIV/AIDS deaths in California (2,498.7). San Francisco County averaged the next highest number of deaths (373.0) followed by San Diego County (203.7). Six counties including Alpine, Lassen, Modoc, Mono, San Benito, and Sierra had no HIV/AIDS deaths from 1996 through 1998.

Of the counties with reliable crude death rates, San Francisco County had the highest rate (48.0 per 100,000 population). Alameda County had the second highest rate (10.4) followed by Los Angeles County (9.6). Santa Clara and Kern County both had the lowest (3.0). The rate for California was 7.6.

Similar to the crude death rates, San Francisco County also had the highest age-adjusted death rate (38.7 per 100,000 population). Alameda County had the second highest rate (9.1) followed by Los Angeles County (8.9). Santa Clara County had the lowest rate (2.6) among all of the counties with reliable rates. California's rate was 7.0.

TABLE 3 DEATHS DUE TO HIV/AIDS AMONG THE LOCAL HEALTH JURISDICTIONS CALIFORNIA, 1996-1998 (By Place of Residence)

LOCAL HEALTH JURISDICTION	NUMBER OF DEATHS (Average)	1997 POPULATION	CRUDE DEATH RATE
BERKELEY	11.3	106,300	10.6
LONG BEACH	80.7	440,800	18.3
PASADENA	15.7	138,600	11.3

Note: Rates are per 100,000 population; ICD-9 codes 042-044.

Source: State of California, Department of Finance, Historical Estimates of California Cities and Counties, April 1990

through January 2000, May 2001.

State of California, Department of Health Services, Death Records.

HIV/AIDS Death Data by Local Health Jurisdiction

Table 3 shows the 1996-1998 three-year average death numbers and crude rates due to HIV/AIDS for California's three local (city) health jurisdictions. Among these local health jurisdictions, Berkeley averaged 11.3 deaths due to HIV/AIDS, while Long Beach had 80.7 deaths and Pasadena had 15.7 deaths. The crude death rates due to HIV/AIDS were 10.6 per 100,000 population in Berkeley, 18.3 in Long Beach, and 11.3 in Pasadena.

Age-adjusted death rates were not calculated for the local health jurisdictions because city population estimates by age are not available.

Technical Notes

In accordance with the National Center for Health Statistics, the HIV/AIDS death data presented in this report are selected using ICD-9 codes 042-044.

The four race/ethnic groups presented in **Table 1** are mutually exclusive. White, Black, and Asian/Other exclude Hispanic ethnicity, while Hispanic includes any race/ethnic group.

In order to remain consistent with the population data obtained from the Department of Finance, the "White race/ethnic group" includes: White, Other (specified), Not Stated, "Asian/Other and Unknown: the and race/ethnic group" includes: Aleut, American Indian. Asian Indian, Asian (specified/unspecified), Cambodian, Chinese, Eskimo. Filipino. Guamanian. Hawaiian. Japanese, Korean, Laotian, Other Pacific Islander, Samoan, Thai, and Vietnamese. In addition, caution should be exercised in interpretation of mortality data bν race/ethnicity. Misclassification of race/ethnicity on the death certificate may contribute to death rates that may be underestimated Hispanics among and Asian/Other.6

As with any vital statistics data, caution needs be exercised when analyzing small numbers, including the rates derived from them. Death rates calculated from a small number of deaths and/or population tend to be unreliable and subject to significant variation from one year to the next. Consequently, Tables 2 and 3 present three-year annual average death data to increase the reliability of the data by county and local health jurisdiction. To assist the reader, 95 percent confidence intervals are provided in the data tables for measuring the reliability of death rates. Rates with a relative standard error (coefficient of variation) greater than or equal to 23 percent are indicated with an asterisk (*).

In addition, the population data used to calculate the crude rates in **Table 3** differ from the population data used to calculate the crude rates in **Table 2**. Consequently, caution should be exercised when comparing the crude rates among the three local health jurisdictions with the rates among the 58 California counties.

The 1940 United States (standard million) population was utilized in this report for age adjustments because it corresponds to prior statistical reports produced on HIV/AIDS by the California Department of Health Services, Center for Health Statistics and the U.S. Department of Health and Human Services, National Center for Health Statistics and Office of Disease Prevention and Health Promotion (Healthy People 2000).

For a more complete explanation of the age-adjusting methodology used in this report see the *Healthy People 2000 Statistical Notes* publication. Also, detailed information on data quality and limitations and the formulas used to calculate vital statistics rates are presented in the appendix of the *Vital Statistics of California*. Another source of information is the Department of Health Services, Center for Health Statistics, Home Page at [www.dhs.ca.gov/org/hisp/chs/chsindex.htm].

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TABLE 1 DEATHS DUE TO HIV/AIDS BY RACE/ETHNICITY, AGE, AND SEX CALIFORNIA, 1998 (By Place of Residence)

	1	DEATHS		ı	POPULATION			RATES				95% CONF	EIDENCE I	IMITS	
AGE GROUPS		DEATH) 		POPULATION			KAIES		TOT		MA			MALE
	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE	LOWER	UPPER	LOWER	UPPER	LOWER	UPPER
							OTAL								
UNDER 1	1	0	1	522,034	266,390	255,644	0.2 *	0.0 +		0.0	0.6	-	-	0.0	1.2
1 - 4 5 - 14	2 1	1 0	1	2,211,332 5,284,863	1,131,193	1,080,139 2,579,864	0.1 * 0.0 *	0.1 * 0.0 +	0.1 *	0.0	0.2 0.1	0.0	0.3	0.0 0.0	0.3 0.1
5 - 14 15 - 24	15	12	3	4,356,208	2,704,999 2,258,544	2,579,864	0.0 *	0.0 +	0.0 *	0.0 0.2	0.1	0.2	0.8	0.0	0.1
25 - 34	302	256	46	5,208,869	2,758,217	2,450,652	5.8	9.3	1.9	5.1	6.5	8.1	10.4	1.3	2.4
35 - 44	608	532	76	5,644,380	2,876,572	2,767,808	10.8	18.5	2.7	9.9	11.6	16.9	20.1	2.1	3.4
45 - 54	344	297	47	4,131,786	2,050,795	2,080,991	8.3	14.5	2.3	7.4	9.2	12.8	16.1	1.6	2.9
55 - 64	117	102	15	2,541,885	1,236,490	1,305,395	4.6	8.2	1.1 *	3.8	5.4	6.6	9.9	0.6	1.7
65 - 74	31	28	3	1,948,692	885,190	1,063,502	1.6	3.2	0.3 *	1.0	2.2	2.0	4.3	0.0	0.6
75 - 84 85 & OLDER	10 1	4 1	6 0	1,236,392 406,376	501,453 125,502	734,939 280,874	0.8 * 0.2 *	0.8 * 0.8 *	0.8 * 0.0 +	0.3 0.0	1.3 0.7	0.0 0.0	1.6 2.4	0.2	1.5
UNKNOWN	0	0	0	400,370	125,502	200,074	0.2	0.0	0.0 +	0.0	0.7	0.0	2.4	-	-
TOTAL	1,432	1,233	199	33,492,817	16,795,345	16,697,472	4.3	7.3	1.2	4.1	4.5	6.9	7.8	1.0	1.4
AGE-ADJUSTED							4.0	6.7	1.1	3.7	4.2	6.3	7.1	1.0	1.3
						V	/HITE								
UNDER 1	1	0	1	179,733	91,912	87,821	0.6 *	0.0 +		0.0	1.6	-	-	0.0	3.4
1 - 4	0	0	0	774,209	397,481	376,728	0.0 +	0.0 +		-	-	-	-	-	-
5 - 14 15 - 24	0	0	0	2,200,811	1,131,068	1,069,743	0.0 +	0.0 +		-	- 0.2	-	- 0 E	- 0.0	- 0.2
15 - 24 25 - 34	3 121	2 107	1 14	1,944,009 2,376,331	1,012,003 1,219,175	932,006 1,157,156	0.2 * 5.1	0.2 * 8.8	0.1 * 1.2 *	0.0 4.2	0.3 6.0	0.0 7.1	0.5 10.4	0.0 0.6	0.3 1.8
25 - 34 35 - 44	323	296	27	3,077,778	1,564,522	1,137,136	10.5	18.9	1.8	9.4	11.6	16.8	21.1	1.1	2.5
45 - 54	198	185	13	2,516,512	1,258,978	1,257,534	7.9	14.7	1.0 *	6.8	9.0	12.6	16.8	0.5	1.6
55 - 64	65	61	4	1,637,742	804,841	832,901	4.0	7.6	0.5 *	3.0	4.9	5.7	9.5	0.0	1.0
65 - 74	14	13	1	1,340,659	615,633	725,026	1.0 *	2.1 *	0.1 *	0.5	1.6	1.0	3.3	0.0	0.4
75 - 84	7	4	3	928,387	376,002	552,385	0.8 *	1.1 *	0.5 *	0.2	1.3	0.0	2.1	0.0	1.2
85 & OLDER UNKNOWN	1 0	1	0	304,882 0	88,872 0	216,010 0	0.3 *	1.1 *	0.0 +	0.0	1.0	0.0	3.3	-	-
TOTAL	733	0 669	64	17,281,053	8,560,487	8,720,566	4.2	7.8	0.7	3.9	4.5	7.2	8.4	0.6	0.9
AGE-ADJUSTED	700	003	- 04	17,201,000	0,000,407	0,720,300	3.6	6.6	0.7	3.4	3.9	6.1	7.1	0.5	0.8
						В	LACK		-			-			
UNDER 1	0	0	0	35,290	18,083	17,207	0.0 +	0.0 +	0.0 +		-	-	-	•	-
1 - 4	1	1	0	157,434	79,976	77,458	0.6 *	1.3 *		0.0	1.9	0.0	3.7	-	-
5 - 14	1	0	1	414,292	209,767	204,525	0.2 *	0.0 +		0.0	0.7			0.0	1.4
15 - 24	3	2	1	352,516	184,981	167,535	0.9 *	1.1 *	0.6 * 9.7 *	0.0	1.8	0.0	2.6	0.0	1.8
25 - 34 35 - 44	67 126	49 97	18 29	386,096 392,571	201,122 191,281	184,974 201,290	17.4 32.1	24.4 50.7	14.4	13.2 26.5	21.5 37.7	17.5 40.6	31.2 60.8	5.2 9.2	14.2 19.7
45 - 54	84	61	23	267,602	125,822	141,780	31.4	48.5	16.2	24.7	38.1	36.3	60.6	9.6	22.9
55 - 64	24	19	5	163,032	76,090	86,942	14.7	25.0	5.8 *	8.8	20.6	13.7	36.2	0.7	10.8
65 - 74	9	8	1	105,180	45,362	59,818	8.6 *	17.6 *	1.7 *	3.0	14.1	5.4	29.9	0.0	4.9
75 - 84	1	0	1	58,348	21,889	36,459	1.7 *	0.0 +		0.0	5.1	-	-	0.0	8.1
85 & OLDER	0	0	0	17,882	5,272	12,610	0.0 +	0.0 +	0.0 +	-	-	-	-	-	-
UNKNOWN TOTAL	0 316	0 237	0 79	0 2,350,243	0 1,159,645	0 1,190,598	13.4	20.4	6.6	12.0	14.9	17.8	23.0	5.2	8.1
AGE-ADJUSTED	310	201	- 13	2,550,245	1,100,040	1,130,330	12.8	19.9	6.3	11.4	14.3	17.3	22.4	4.9	7.7
						HIS	PANIC								
UNDER 1	0	0	0	247,713	125,675	122,038	0.0 +	0.0 +	0.0 +		-	-	-	•	-
1 - 4	1	0	1	1,024,463	522,147	502,316	0.1 *	0.0 +		0.0	0.3	-	-	0.0	0.6
5 - 14	0	0	0	2,054,172	1,048,592	1,005,580	0.0 +	0.0 +		-	-	-	-	-	-
15 - 24 25 - 34	9 106	8 93	1 13	1,494,249 1,820,094	771,494 1,021,495	722,755 798,599	0.6 * 5.8	1.0 * 9.1	0.1 * 1.6 *	0.2 4.7	1.0 6.9	0.3 7.3	1.8 11.0	0.0 0.7	0.4 2.5
25 - 34 35 - 44	143	126	17	1,820,094	797,133	798,599	9.5	15.8	2.4 *	4.7 8.0	11.1	7.3 13.0	11.0	1.3	2.5 3.6
45 - 54	51	42	9	848,771	429,818	418,953	6.0	9.8	2.1 *	4.4	7.7	6.8	12.7	0.7	3.6
55 - 64	26	21	5	454,852	220,075	234,777	5.7	9.5	2.1 *	3.5	7.9	5.5	13.6	0.3	4.0
65 - 74	7	6	1	299,470	135,955	163,515	2.3 *	4.4 *	0.6 *	0.6	4.1	0.9	7.9	0.0	1.8
75 - 84	2	0	2	140,610	57,195	83,415	1.4 *	0.0 +		0.0	3.4	-	-	0.0	5.7
85 & OLDER	0	0	0	51,135	17,548	33,587	0.0 +	0.0 +	0.0 +	-	-	-	-	-	-
UNKNOWN TOTAL	0 345	0 296	0 49	9,938,943	5,147,127	4,791,816	3.5	5.8	1.0	3.1	3.8	5.1	6.4	0.7	1.3
AGE-ADJUSTED	0-10			0,000,040	÷,,.≥1	.,. 5 1,5 10	3.7	6.0	1.1	3.3	4.1	5.3	6.7	0.8	1.5
						ASIA	N/OTHER								
UNDER 1	0	0	0	59,298	30,720	28,578	0.0 +	0.0 +		-	-	-	-	•	•
1 - 4	0	0	0	255,234	131,595	123,639	0.0 +	0.0 +		-	-	-	-	-	-
5 - 14 15 - 24	0	0	0	615,592 565,434	315,574 290,066	300,018 275,368	0.0 + 0.0 +	0.0 + 0.0 +		-	-	-	-	-	-
25 - 34	8	7	1	626,348	316,425	309,923	1.3 *	2.2 *		0.4	2.2	0.6	3.9	0.0	1.0
35 - 44	16	13	3	670,617	323,636	346,981	2.4 *	4.0 *		1.2	3.6	1.8	6.2	0.0	1.8
45 - 54	11	9	2	498,901	236,177	262,724	2.2 *	3.8 *		0.9	3.5	1.3	6.3	0.0	1.8
55 - 64	2	1	1	286,259	135,484	150,775	0.7 *	0.7 *		0.0	1.7	0.0	2.2	0.0	2.0
65 - 74	1	1	0	203,383	88,240	115,143	0.5 *	1.1 *		0.0	1.5	0.0	3.4	-	-
75 - 84	0	0	0	109,047	46,367	62,680	0.0 +	0.0 +		-	-	-	-	-	-
85 & OLDER UNKNOWN	0	0	0	32,493 0	13,822 0	18,671 0	0.0 +	0.0 +	0.0 +	-	-	-	-	-	•
TOTAL	38	31	7	3,922,606	1,928,106	1,994,500	1.0	1.6	0.4 *	0.7	1.3	1.0	2.2	0.1	0.6
AGE-ADJUSTED			-	.,,	,,•	,,	0.9	1.5	0.3 *	0.6	1.2	1.0	2.0	0.1	0.6

Note: Rates are per 100,000 population; ICD-9 Codes 042-044.

White, Black, and Asian/Other exclude Hispanic ethnicity. Hispanic includes any race category.

- $^{\star}\,$ Death rate unreliable, relative standard error is greater than or equal to 23%.
- + Standard error indeterminate, death rate based on no (zero) deaths.
 Confidence limit is not calculated for no (zero) deaths.

Source: State of California, Department of Finance, 1998 Population Estimates with Age, Sex and Race/Ethnic Detail, October 2000. State of California, Department of Health Services, Death Records.

TABLE 2 DEATHS DUE TO HIV/AIDS CALIFORNIA COUNTIES, 1996-1998 (By Place of Residence)

COUNTY	DEATHS	1996-1998	PERCENT	1997	CRUDE	AGE-ADJUSTED	95% CONFIDENCE LIMITS		
	1996-1998	DEATHS (AVERAGE)		POPULATION	RATE	RATE	LOWER	UPPER	
CALIFORNIA	7,496	2,498.7	100.0	32,956,695	7.6	7.0	6.8	7.3	
ALAMEDA	435	145.0	5.8	1,398,421	10.4	9.1	7.6	10.6	
ALPINE	0	0.0	0.0	1,174	0.0 +	0.0 +	-	-	
AMADOR	2	0.7	а	33,472	2.0 *	1.7 *	0.0	5.7	
BUTTE	18	6.0	0.2	198,459	3.0 *	3.0 *	0.5	5.4	
CALAVERAS	3	1.0	а	37,916	2.6 *	2.5 *	0.0	7.3	
COLUSA	1	0.3	а	18,530	1.8 *	1.9 *	0.0	8.4	
CONTRA COSTA	169	56.3	2.3	896,206	6.3	5.6	4.1	7.1	
DEL NORTE	1	0.3	а	28,413	1.2 *	1.3 *	0.0	5.5	
EL DORADO	12	4.0	0.2	147,409	2.7 *	2.8 *	0.0	5.8	
FRESNO	108	36.0	1.4	778,674	4.6	4.8	3.2	6.3	
GLENN	2 11	0.7 3.7	a 0.1	26,856	2.5 * 2.9 *	2.4 * 2.6 *	0.0 0.0	8.0 5.3	
HUMBOLDT IMPERIAL	9	3.7 3.0	0.1	126,137 142,759	2.9 *	2.6 *	0.0	5.3 4.9	
INYO	2	0.7	0.1 a	18,272	3.6 *	1.1 *	0.0	4.9	
KERN	57	19.0	0.8	634,404	3.0	3.0	1.6	4.4	
KINGS	16	5.3	0.2	117,793	4.5 *	4.5 *	0.6	8.3	
LAKE	11	3.7	0.1	55,047	6.7 *	7.0 *	0.0	14.5	
LASSEN	0	0.0	0.0	33,861	0.0 +	0.0 +	0.0	14.5	
LOS ANGELES	2,737	912.3	36.5	9,524,613	9.6	8.9	8.3	9.4	
MADERA	13	4.3	0.2	113,525	3.8 *	3.8 *	0.2	7.4	
MARIN	54	18.0	0.7	243,214	7.4	5.9	3.1	8.6	
MARIPOSA	2	0.7	a	15,957	4.2 *	3.8 *	0.0	12.8	
MENDOCINO	8	2.7	0.1	85,966	3.1 *	2.9 *	0.0	6.4	
MERCED	17	5.7	0.2	201,905	2.8 *	3.0 *	0.5	5.4	
MODOC	0	0.0	0.0	10,140	0.0 +	0.0 +	-	-	
MONO	0	0.0	0.0	10,140	0.0 +	0.0 +	-	_	
MONTEREY	60	20.0	0.8	377,744	5.3	4.9	2.7	7.1	
NAPA	15	5.0	0.2	121,239	4.1 *	3.4 *	0.3	6.5	
NEVADA	6	2.0	0.1	88,356	2.3 *	2.3 *	0.0	5.8	
ORANGE	344	114.7	4.6	2,705,313	4.2	3.8	3.1	4.5	
PLACER	18	6.0	0.2	215,634	2.8 *	2.7 *	0.4	4.9	
PLUMAS	1	0.3	а	20,402	1.6 *	1.5 *	0.0	6.7	
RIVERSIDE	298	99.3	4.0	1,423,699	7.0	7.0	5.6	8.4	
SACRAMENTO	242	80.7	3.2	1,146,825	7.0	6.5	5.1	7.9	
SAN BENITO	0	0.0	0.0	46,121	0.0 +	0.0 +	-	-	
SAN BERNARDINO	224	74.7	3.0	1,617,262	4.6	4.5	3.5	5.5	
SAN DIEGO	611	203.7	8.2	2,763,401	7.4	7.2	6.2	8.2	
SAN FRANCISCO	1,119	373.0	14.9	777,368	48.0	38.7	34.7	42.6	
SAN JOAQUIN	68	22.7	0.9	542,196	4.2	4.2	2.4	5.9	
SAN LUIS OBISPO	27	9.0	0.4	234,813	3.8 *	3.8 *	1.3	6.3	
SAN MATEO	111	37.0	1.5	711,699	5.2	4.7	3.2	6.3	
SANTA BARBARA	49 149	16.3	0.7	400,751	4.1	3.8	1.9	5.6	
SANTA CLARA	36	49.7	2.0 0.5	1,671,414	3.0 4.9	2.6 4.4	1.8 1.9	3.3 6.9	
SANTA CRUZ		12.0		247,216	4.9 4.3 *	4.4			
SHASTA SIERRA	21 0	7.0 0.0	0.3 0.0	163,351 3,406	4.3 ° 0.0 +	4.0 ^ 0.0 +	1.0	7.0	
SISKIYOU	6	2.0	0.1	44,186	4.5 *	4.8 *	0.0	11.6	
SOLANO	86	28.7	1.1	378,664	7.6	7.1	4.5	9.7	
SONOMA	109	36.3	1.5	432,771	8.4	7.7	5.2	10.3	
STANISLAUS	53	17.7	0.7	425,407	4.2	4.1	2.2	6.1	
SUTTER	8	2.7	0.1	76,004	3.5 *	3.1 *	0.0	6.9	
TEHAMA	7	2.3	0.1	54,702	4.3 *	4.5 *	0.0	10.5	
TRINITY	2	0.7	a	13,230	5.0 *	4.2 *	0.0	14.4	
TULARE	36	12.0	0.5	358,337	3.3	3.5	1.5	5.4	
TUOLUMNE	5	1.7	0.1	52,280	3.2 *	3.4 *	0.0	8.6	
VENTURA	73	24.3	1.0	727,154	3.3	3.1	1.9	4.4	
YOLO	17	5.7	0.2	154,850	3.7 *	4.0 *	0.7	7.3	
IOLO									

Note: Rates are per 100,000 population; ICD-9 codes 042-044.

Source: State of California, Department of Finance, 1997 Population Estimates with Age, Sex and Race/Ethnic Detail, May 2000. State of California, Department of Health Services, Death Records.

^{*} Death rate unreliable (relative standard error is greater than or equal to 23%).

⁺ Standard error indeterminate, death rate based on no (zero) deaths.

a Represents a percentage of more than zero but less than 0.05.

⁻ Confidence limit is not calculated for no (zero) deaths.